Update Vector Object with Grid Values

The **Surfaces>Assign Values from Grid** menu option assigns grid cell values from the grid to map objects that overlie them. This is used, for example, to assign elevations to sample points or to drillhole locations from a digital elevation model, or to assign mean geochem values from a geochemistry grid to overlying geology polygons.

Discover can also assign minimum and maximum values to polygons from the grid cells that lie within the polygon. As well as assigning the values to columns, the values can be reported to the screen.

Exercise 3: Update elevation in vector from grid cells

1.	Open the MAJOR ELEMENTS table from	Open 🔹 💽 🔀
	the Encom	Look in: 🎓 Geochemistry 🔽 🗢 🖻 🐨 📰 🗸 🦉
	Training\Darlot\Geochemistry folder.	Wajor Elements. TAB Tables Directory Premote Tables Protectory Work spaces Directory Files of type: Major Clements. TAB Preferred View: Automatic Help Create copy in MapInfo Format for read/write Create copy in MapInfo format for read/write
2.	Make sure this table is editable and add	Modify Table Structure: Major_Elements
	a new float column to the table called	Fields Tune Indexed
	Elevation.	MN0 Float MG0 Float CA0 Float NA20 Float K20 Float P205 Float F Small Integer S Float PH Float CONDUCT Float S2 Float S3 Float Vame: Elevation Float Vame: OK Cancel Help

3.	Select all the stream sediment samples in the map window.	Major_Elements,,Darlot_sp
4.	from Grid menu option	Surfaces Create Grid
		Contour a Grid Label Contour Lines Grid Calculator Grid Filter Assign Values from Grid Draw Grid Profile Create Voronoi Polygons
5. 6.	Select Elevation from the Assign value to column pull-down list Click OK .	Discover - Assign Grid Values
		OK Cancel K20 P205 F S PH CONDUCT S2 S3 Elevation

When processing has completed open the	🗳 Major Elements Browser	
selection into a browser window and	CONDUCT S2 S3 Elevation	
observe the populated Elevation field.	2.11 0.002 0.002 470.189	
	3.24 0.023 0.023 462.609	
	8.31 0.019 0.019 491.942	
	39.57 0.127 0.127 457.067	
	■ 7.21 0.002 0.002 495.398	
	■ 3.09 0.009 0.009 483.84	
	2 0.007 0.007 448.751	
	■ 6.03 0.003 0.003 464.315	
	■ 1.03 0.002 0.002 492.952	
	3.15 0.008 0.008 461.256	
	2.12 0.007 0.007 459.765	
	7.22 0.006 0.006 492.147	
		-
7. Select File>Save Table to save these	File Edit Tools Objects Query Tat	
updates.	New Table Ctrl+N	
	Open Ctrl+O	
	Open Workspace Ctrl+A	
	Open Web Service	
	Open DBMS Connection	
	Close Table	
	Close All	
	Close DBMS Connection	
	Save Table Ctrl+S	
	Save Copy As.	
	Save Query	